From: Hoch, Kevin [Kevin.Hoch@aptim.com]

Sent: Tuesday, July 14, 2020 10:23 AM

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Subject: [Non-DoD Source] HPNS Parcel E Phase 1 and Phase 3 Weekly CQC Meetings **Attachments:** D2005 CTO 0024 Project QC Meeting No. 029 Parcel E Phase 1 Agenda 2020-0708.pdf; D0006 CTO 4761 Project QC Meeting 014 Parcel E Phase 3 071420 Agenda_Rev01.pdf

Good morning-

Attached please find materials for the CQC call.

Regards,

Kevin

Kevin Hoch

Quality Control Manager

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Project QC Meeting #014 Agenda (07/14/2020)

Parcel E Remedial Action – Phase 3 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-17-D-0006 CTO 4761

Call-in number: (b) (4)

Start: 1120 End:

Safety Topic: Overnight site "visitors"

Old Business

Submittals

- Submittal 001 Rebar for Seawall
 - Submitted to Navy for informational purposes only on 2/17/20
- Submittal 002 Shoring Design
 - o Approved by Navy on 03/24/20
- Submittal 003 Slurry Mix Design
 - o Approved by Navy on 02/27/20
- Submittal 004 Import Fill (Stanford Pile)
 - o Approved by Navy on 03/24/20
- Submittal 005 Drain Rock (Virgin Source Material Vulcan Pilarcitos Quarry in Half Moon Bay and Hanson Aggregates Sunol Quarry)
 - o Approved by Navy on 03/24/20
- Submittal 006 Rip Rap Armor Stone (Product data sheets/test reports)
 - o Approved by Navy 5/18/20
- Submittal 007 Slurry Wall Implementation Plan
 - o Approved by Navy 5/18/20
- Submittal 008 Filter Fabric Product Data
 - o Submitted to Navy on 6/01/20
 - Note that product data was also submitted for informational purposes for the Geogrid Reinforcement required for armored revetment at IR02 NW (the project specs for which *do not* require government approval)
- Submittal 009 Cone Penetrometer Testing (CPT) Investigation
 - o Awaiting final Navy approval

New Business

Status of Work

- Completed installation of slurry wall cap
- Started demobilization of slurry wall batch plant equipment
- Started upland excavation of Geogrid anchor
- UXO Construction Oversight
- Radiological controls and support
- Site maintenance ongoing (BMPs, fencing, etc.)
- Ongoing upwind and downwind continuous air monitoring, as well as work area real-time dust monitoring using personal data RAMs (pDRs)

Project QC Meeting #014 Agenda (07/14/2020)

Parcel E Remedial Action – Phase 3 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-17-D-0006 CTO 4761

Analytical Results

• No new analytical results received

Navy QA Oversight Update

- Biologists
- UXO
- RAD

Visitors

- Hamid Naimi Navy ROICC
- Doug Delong Navy CSO
- Jamie DelPozzo BioMaAS

Work to be accomplished the remainder of this week

- Complete demobilization of slurry wall batch plant and equipment
- Continue excavation of upland soil for Geogrid anchor
- Rad Controls and support
- UXO support
- Daily air monitoring
- Site maintenance (BMPs, fencing, etc.)

Work to be accomplished in the next two weeks (See attached 2-week look ahead)

- Continue excavation of upland soil for geogrid anchor
- Prep for Geo-grid installation
- Remove surface debris, and shoreline sediment/soil/debris from EOS-2, EOS-3, EOS-4
- Rad Controls and support
- UXO support
- Daily air monitoring
- Site maintenance (BMPs, fencing, etc.)

Inspections

Preparatory

• None

Initial

None

Follow-up

- Dust Control and Air Monitoring
- Radiological Controls
- Topographical Survey
- IR02-NW Slurry Wall Construction
- UXO Construction Oversight

Project QC Meeting #014 Agenda (07/14/2020)

Parcel E Remedial Action – Phase 3 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-17-D-0006 CTO 4761

Off-site Work or Materials Testing

• None

Additional Documentation Required

• None

QC, Production Issues

• None

Safety Issues

• All work was completed safely with no accidents or near misses reported.

Items That May Require Revising Project Plans

• None

Action Items

None

Comments/Questions

Current Week and Two Week Look Ahead*

Parcel E Remedial Action – Phase 3 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-17-D-0006 CTO 4761

07/13/2020	07/14/2020	07/15/2020	07/16/2020	07/17/2020	07/18/2020	07/19/2020
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
 Excavate Upland Soil for Geogrid Anchor Demob slurry wall batch plant and equipment Rad Controls and support (all week) UXO support (all week) Air monitoring (all week) BMP Inspection/ site maintenance (Daily) 	Weekly CQC Meeting Excavate Upland Soil for Geogrid Anchor Demob slurry wall batch plant and equipment	Excavate Upland Soil for Geogrid Anchor Demob slurry wall batch plant and equipment	Excavate Upland Soil for Geogrid Anchor	Excavate Upland Soil for Geogrid Anchor	No fieldwork	No fieldwork
07/20/2020 Monday	07/21/2020 Tuesday	07/22/2020 Wednesday	07/23/2020 Thursday	07/24/2020 Friday	07/25/2020 Saturday	07/26/2020 Sunday
 Excavate Upland Soil for Geogrid Anchor Rad Controls and support (all week) UXO support (all week) Air monitoring (all week) BMP Inspection/ site maintenance (Daily) 	Weekly CQC Meeting Excavate Upland Soil for Geogrid Anchor	Excavate Upland Soil for Geogrid Anchor	Excavate Upland Soil for Geogrid Anchor	Excavate Upland Soil for Geogrid Anchor	No fieldwork	No fieldwork
07/27/2020 Monday	07/28/2020 Tuesday	07/29/2020 Wednesday	07/30/2020 Thursday	07/31/2020 Friday	08/01/2020 Saturday	08/02/2020 Sunday
 Excavate Upland Soil for Geogrid Anchor Prep for Geo-grid installation (date TBD) Remove surface debris, and shoreline sediment/soil/debris from EOS-2, EOS-3, EOS-4 (date TBD) Rad Controls and support (all week) UXO support (all week) Air monitoring (all week) BMP Inspection/ site maintenance (Daily) 	Weekly CQC Meeting Excavate Upland Soil for Geogrid Anchor	Excavate Upland Soil for Geogrid Anchor	Excavate Upland Soil for Geogrid Anchor	Excavate Upland Soil for Geogrid Anchor	No fieldwork	No fieldwork

^{*}Subject to change based on field conditions

Project QC Meeting #029 Agenda (07/14/2020)

Parcel E Remedial Action – Phase 1 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-12-D-2005 CTO 0024

Call-in number: 1(b) (4)

Start: 1100 End:

Safety Topic: Overnight site "visitors"

Old Business

Field Change Requests (FCR)

- 001: Existing SS/SD lines in RA excavations Navy Approved (05/01/20)
- 002: ISO-Pacific Soil Sorting System (S3) Proof of Concept Demonstration.
 - Approval was received by APTIM on 12/31.
- 003: Former SS/SD trenches in RA excavations In Navy review
- 004: Excavation Dewatering Navy approved 3/12
- 005: Addition of back-up laboratory (Enthalpy) to expedite TAT –Navy RPM approved 3/12/2020. SAP addendum (FCR) submitted 3/13/2020 to QAO. 4/17/20 – canceled as Enthalpy lab closed (permanently out of business)
- 006: Impacts of the radiological rework areas on non-excavation, intrusive RA activities (i.e. well installation/decommissioning, GW injections, and soil gas surveys). APTIM prepared draft FCR; but on hold as need Navy to confirm extent of rework areas and potential limitations to planned Phase 1 RA work outside of IR-02 to identify impacts. - on hold

Submittals

- Submittal 001 Import Fill (Stanford Pile)
 - Approved by Navy on 12/19/19; CDPH 01-08-2020
- Submittal 002 Drain Rock (Virgin Source Material Vulcan Pilarcitos Quarry in Half Moon Bay and Hanson Aggregates Sunol Quarry)
 - Approved by Navy on 02-27-2020

New Business

Status of Work

- Completed excavations EX02GR73SW, EX02B525, EX02B250, EX02GR71SW, EX02B256 and EX02TA16A
 - Collected confirmation samples
 - 1 LLRO was found in EX02B256 lift 7 (small metal debris)
- Completed backfill and compaction at EX02B412, EX02B456, and EX02GR93SW
- Started to backfill/compaction at EX02B401
- Continued S3 Proof-of-Concept Demonstration
- Collected SF Bay surface water samples
- Continued transferring soil to stockpiles and screening to 2-inch minus with PowerScreen
- Site maintenance (BMPs, fencing, etc.)
- Sanitized all equipment daily
- Conducted upwind and downwind continuous air monitoring as well as work area real-time dust monitoring using personal data RAMs (PDRs).

Project QC Meeting #029 Agenda (07/14/2020)

Parcel E Remedial Action – Phase 1 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-12-D-2005 CTO 0024

Analytical Results

• See attached, new results are highlighted.

Navy QA Oversight Update

- Biologists
- UXO
- RAD

Visitors

- Hamid Naimi Navy ROICC
- Doug Delong Navy CSO
- Jamie DelPozzo BioMaAS

Work to be accomplished the remainder of this week

- Backfill EX02B256
- Continue screening excavated soil to remove smaller debris
- Continue S3 Proof-of-Concept Demonstration with RSY Pad Screening
- Waste stockpiling
- Collect SF Bay surface water samples
- Air monitoring, site maintenance (BMPs, fencing, etc.)

Work to be accomplished in the next two weeks (See attached current plus 3-week look ahead)

- Conduct over-excavations and confirmation sampling as necessary
- Conduct backfilling of excavations as appropriate
- Screen excavated soil to remove smaller debris
- Continue S3 Proof-of-Concept Demonstration with RSY Pad Screening
- Load, place and scan soil on RSY Pads
- Conduct upwind and downwind continuous air monitoring as well as work area real-time dust monitoring using personal data RAMs (PDRs).
- Site maintenance (BMPs, fencing, etc.)

Inspections

Preparatory

• None

Initial

None

Project QC Meeting #029 Agenda (07/14/2020)

Parcel E Remedial Action – Phase 1 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-12-D-2005 CTO 0024

Follow-up

- Dust Control and Air Monitoring
- Radiological Controls
- UXO Construction Oversight
- Soil Excavations
- Confirmation Sampling

Off-site Work or Materials Testing

o None

Additional Documentation Required

o None

QC, Production Issues

o None

Safety Issues

o All work was completed safely with no accidents or near misses reported.

Items That May Require Revising Project Plans

o None

Action Items

Comments/Questions

Analytical Results Final Confirmation Soil Samples

Remedial Action at Parcel E - Phase 1

Hunters Point Naval Shipyard, San Francisco, California Contract N62473-12-D-2005 CTO 0024

Excavation ID	Date Sampled	Meets Tier 2 Criteria	Chemicals of Concern	Comments
EX02B288	06/09/20	N	Lead, Zinc	Lead (2,200mg/kg) and Zinc (5,100mg/kg) in floor, and Lead (3,900mg/kg) and Zinc (85,000mg/kg) in the east sidewall exceeded Tier 2 criteria (Lead 775mg/kg, and Zinc 3,600mg/kg)
EX02GR184SW	06/03/20	Y	Aroclor-1254	Ready for backfill
EX02B456	6/5/20- 6/8/20	Y	Copper, Zinc, TPH	Ready for backfill
EX02B401	5/21/20- 6/01/20	N	Aroclor-1260	AR1260 (31,000 mg/kg) exceeds T2 (3.7mg/kg) in east sidewall
EX02GR179SW	06/04/20	N	Copper, Zinc	Copper (1,000mg/kg in floor, 6,000mg/kg in south sidewall) exceed, T2 criteria (620mg/kg) Zinc (1,500mg/kg in floor, 820 mg/kg in south sidewall) exceed, T2 criteria (790mg/kg)
EX02GR179SW	06/30/20	Y	Copper, Zinc	Backfilled
EX02SS310	06/02/20	Y	Lead	Backfilled
EX02B412	05/24/20	N	Benzo(a)pyrene	B(a)P exceeds T2 criteria (1.7mg/kg) in west sidewall (1.8mg/kg) and east sidewall (1.9mg/kg)
EX02B412 sidewall step- out	6/8/20	N	Benzo(a)pyrene	B(a)P exceeds T2 criteria (1.7mg/kg) in east sidewall (2.8 mg/kg)
EX02B398	05/20/20	Y	Lead	Ready for backfill
EX02B461	05/14/20	N	Benzo(a)pyrene Benzo(b)fluoranthene	B(a)P (2.4mg/kg) exceeds T2 (1.7mg/kg) in west sidewall
EX02B461- sidewall step- out	6/01/20	Y	Benzo(a)pyrene	Ready for backfill
EX02B100	5/14/20	N	Aroclor-1260	AR1260 (10mg/kg) exceeds T2 (3.7mg/kg) in sidewall SW-03
EX02B100- sidewall step- out	6/1/20	N	Aroclor-1260	AR1260 (9.3 mg/kg) exceeds T2 (3.7mg/kg) in east sidewall
EX02GR93SW (EOS-1)	5/14/20	N	Copper, Lead, TPH	Lead (1,300mg/kg, T2=1,300) TPH (11,903mg/kg, T2=3,500mg/kg) exceed T2 in sidewall SW-01-2.5

Analytical Results Final Confirmation Soil Samples

Remedial Action at Parcel E - Phase 1 Hunters Point Naval Shipyard, San Francisco, California

Contract N62473-12-D-2005 CTO 0024

EX02GR93SW				
				T 1/2 100 / TO 1 200)
(EOS-1) –				Lead (2,100mg/kg, T2=1,300)
Sidewall step-				exceeds T2 criteria in north sidewall
out	6/1/2020	N	Lead, TPH	@ 2.5-feet
EX02GR93SW				
(EOS-1) –				
Sidewall step-				
out #2	6/30/20	Y	Lead	Ready for backfill
			Arsenic, Lead,	
EX02MW149				
	5/14/20	N	(BaP)	(1.7mg/kg) in sidewall SW-02
_				
out	06/01/20	Y		
EX02B122E				
	5/13/20	N	Dieldrin	criteria (3.7mg/kg) in floor sample
floor step-out	5/27/20	Y	Aroclor-1260	Ready for backfill
EX02B403	5/13/20	Y	Manganese	Ready for backfill
EX02B405	5/6/20	Y	Zinc	Ready for backfill
EX02B442	5/6/20	Y	Aroclor-1260	Ready for backfill
EV36D015			Copper, Mercury,	
EA30D013	11/22/19	Y	TPH	Backfill complete
EV26D022			Copper, Mercury,	
EA30B033	11/22/19	Y	TPH	Backfill complete
				1 sidewall exceeded Tier 2 criteria for
EV2(D1(2			alpha-BHC (pest.),	
EX36B163	11/22/19	N	copper, mercury	excavation. a
DW2/D44/	11/25/19	Y	SVOCs	Backfill complete
EX36B116				
	12/10/19	N		
EX04B030 -				3 sidewalls exceeded Tier 2 criteria.
Pre-				
characterization				
l			PCBs, metals	locations.
EX13B007	12/10/19	N	PCBs	
		-		PCB above limit in 3 sidewalls
EX72SS23	12/10/19	Y	Zinc	Backfill complete
				•
EV0100250				PCB above limit in all 4 sidewalls and
EX0188350	12/10/19	N	PCBs	bottom
EX02B403 EX02B405 EX02B442 EX36B015 EX36B033 EX36B163 EX36B163 EX36B116 EX04B030 — Pre-characterization EX13B007	5/13/20 5/6/20 5/6/20 11/22/19 11/22/19 11/22/19 11/25/19 12/10/19 12/10/19	Y Y Y Y N N N Y	Benzo(a)pyrene (BaP) Benzo(a)pyrene Lead, Aroclor-1260, Dieldrin Aroclor-1260 Manganese Zinc Aroclor-1260 Copper, Mercury, TPH Copper, Mercury, TPH alpha-BHC (pest.), copper, mercury SVOCs PCBs, metals PCBs Zinc	Ready for backfill Ready for backfill Ready for backfill Ready for backfill Backfill complete Backfill complete 1 sidewall exceeded Tier 2 criteria for Cu. Plan to conduct step-out excavation. a Backfill complete 3 sidewalls exceeded Tier 2 criteria. Plan to extend excavation on 3 sides to 2 feet beyond pre-characterization locations. PCB above limit in 3 sidewalls Backfill complete PCB above limit in all 4 sidewalls and

Analytical Results Final Confirmation Soil Samples Remedial Action at Parcel E - Phase 1 Hunters Point Naval Shipyard, San Francisco, California Contract N62473-12-D-2005 CTO 0024

EX56B021	12/30/19	Y	Mercury	Backfill complete

Notes:

Table presents confirmation sample results unless otherwise noted.

^a Sidewall will be over-excavated 2-feet back from the original sidewall and laterally (10-feet maximum on each side of confirmation sample location). A confirmation sample will collected at the same depth as the original confirmation sample and analyzed for the constituent that exceeded Tier 2 criteria in the original confirmation sample.

Floor will be over-excavated 1-foot deeper and laterally (2.5-feet in each direction from the original confirmation sample location. A confirmation sample will collected at the same location as the original confirmation sample and analyzed for the constituent(s) that exceeded Tier 2 criteria in the original confirmation sample. Unless an additional step-down excavation extends the original planned excavation depth to below 5 feet, additional sidewall samples are not required and only a replacement bottom sample will be collected.

See Section 8.3.6 of RAWP and Section 17.1.2 of the SAP

Current Week and Two Week Look Ahead*

Parcel E Remedial Action – Phase 1 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-12-D-0005 CTO 0024

07/132020	07/14/2020	07/15/2020	07/16/2020	07/17/2020	07/18/2020	07/19/2020
Monday Mobilize to EOS-4 Post excavation sampling Waste stockpiling Rad Controls and support (all week) UXO support (all week) Air monitoring (all week) BMP Inspection/site maintenance (Daily) Screen Excavated Soil Load, Place, & Scan Soil on RSY Pads	Tuesday Weekly CQC Meeting Backfill excavations (as available) Screen Excavated Soil Load, Place, & Scan Soil on RSY Pads	Wednesday Backfill excavations (as available) Waste stockpiling Screen Excavated Soil ISO-Pacific S3 Proof of Concept Load, Place, & Scan Soil on RSY Pads Collect SF Bay surface water samples	Thursday Backfill excavations (as available) Waste stockpiling Screen Excavated Soil ISO-Pacific S3 Proof of Concept Load, Place, & Scan Soil on RSY Pads	Friday Backfill excavations (as available) Waste stockpiling Screen Excavated Soil ISO-Pacific S3 Proof of Concept Load, Place, & Scan Soil on RSY Pads	Saturday No fieldwork	Sunday No fieldwork
07/20/2020 Monday	07/21/2020 Tuesday	07/22/2020 Wednesday	07/23/2020 Thursday	07/24/2020 Friday	07/25/2020 Saturday	07/26/2020 Sunday
ISO-Pacific S3 Proof of Concept Conduct over-excavations (as needed) Post excavation sampling Waste stockpiling Rad Controls and support (all week) UXO support (all week) Air monitoring (all week) BMP Inspection/site maintenance (Daily) Screen Excavated Soil Load, Place, & Scan Soil on RSY Pads	Weekly CQC Meeting ISO-Pacific S3 Proof of Concept Load, Place, & Scan Soil on RSY Pads Screen Excavated Soil Waste stockpiling	ISO-Pacific S3 Proof of Concept Load, Place, & Scan Soil on RSY Pads Screen Excavated Soil Waste stockpiling Collect SF Bay surface water samples	ISO-Pacific S3 Proof of Concept Load, Place, & Scan Soil on RSY Pads Screen Excavated Soil Waste stockpiling	ISO-Pacific S3 Proof of Concept Load, Place, & Scan Soil on RSY Pads Screen Excavated Soil Waste stockpiling	No fieldwork	No fieldwork
07/27/2020 Monday	07/28/2020 Tuesday	07/29/2020 Wednesday	07/30/2020 Thursday	07/31/2020 Friday	08/01/2020 Saturday	08/02/2020 Sunday
Conduct over-excavations (as needed) Post excavation sampling Waste stockpiling Rad Controls and support (all week) UXO support (all week) Air monitoring (all week) BMP Inspection/site maintenance (Daily) Screen Excavated Soil Load, Place, & Scan Soil on RSY Pads	Weekly CQC Meeting ISO-Pacific S3 Proof of Concept Load, Place, & Scan Soil on RSY Pads Screen Excavated Soil Waste stockpiling	ISO-Pacific S3 Proof of Concept Load, Place, & Scan Soil on RSY Pads Screen Excavated Soil Waste stockpiling Collect SF Bay surface water samples	ISO-Pacific S3 Proof of Concept Load, Place, & Scan Soil on RSY Pads Screen Excavated Soil Waste stockpiling	ISO-Pacific S3 Proof of Concept Load, Place, & Scan Soil on RSY Pads Screen Excavated Soil Waste stockpiling	No fieldwork	No fieldwork

^{*}Subject to change based on field conditions